

WHAT IS CLAIMED IS:

- 1 1. A sliding reusable connector for attaching gear to a base unit, said
2 connector comprising:
 - 3 (a) a main body having a first main body end and a second main body
4 end;
 - 5 (b) a main body track portion associated with said first main body end;
 - 6 (c) a main body locking portion associated with said second main body
7 end;
 - 8 (d) a slide having a first slide end and a second slide end;
 - 9 (e) longitudinal slide track structure extending substantially between
10 said first slide end and said second slide end;
 - 11 (f) slide locking structure associated with said second slide end;
 - 12 (g) said slide track structure slidably interconnected with said main
13 body track portion; and
 - 14 (h) said slide locking structure repeatedly lockable and unlockable with
15 said main body locking portion.
- 1 2. The connector of claim 1, said main body further defining at least
2 one secondary connection means.
- 1 3. The connector of claim 2, wherein each said at least one secondary
2 connection means is an aperture defined in said main body.
- 1 4. The connector of claim 1 having an open position in which said
2 second slide end is relatively near said first main body end and a closed position in
3 which said first slide end is relatively near said first main body end and said second
4 slide end is relatively near said second main body end, said slide track structure sliding
5 within said main body track portion between said open position and said closed position.

1 5. The connector of claim 1 having an open position in which said
2 second slide end is relatively near said first main body end, an insertion opening defined
3 between said main body locking portion and both said second slide end and said first
4 main body end.

1 6. The connector of claim 5, said main body having a longitudinal
2 main body length and said insertion opening having a longitudinal insertion opening
3 length, said longitudinal insertion opening length being more than 60% of said main
4 body length.

1 7. The connector of claim 5, wherein said insertion opening is suitable
2 for allowing a gear attachment mechanism of said gear to be positioned within and
3 removed from said connector without significant manipulation.

1 8. The connector of claim 5, wherein said insertion opening is suitable
2 for allowing a base unit attachment mechanism of said base unit to be positioned within
3 and removed from said connector without significant manipulation.

1 9. The connector of claim 1 wherein said longitudinal slide track
2 structure extending substantially between said first slide end and said second slide end
3 is at least one groove.

1 10. The connector of claim 1 wherein said longitudinal slide track
2 structure extending substantially between said first slide end and said second slide end
3 is at least one rib.

1 11. A sliding reusable connector for attaching gear to a base unit, said
2 connector comprising:

3 (a) primary connection means comprising:

4 (i) a main body having a main body track portion and a main
5 body locking portion, said main body track portion separated
6 from said main body locking portion by a distance;

7 (ii) a slide having slide locking structure and longitudinal slide
8 track structure, longitudinal slide track structure extending
9 substantially the length of said slide;

10 (iii) said slide track structure slidably interconnected with said
11 main body track portion; and

12 (iv) said slide locking structure repeatedly lockable and
13 unlockable with said main body locking portion; and

14 (b) at least one secondary connection means.

1 12. The connector of claim 11, wherein each said at least one
2 secondary connection means is an aperture defined in said main body.

1 13. The connector of claim 11 said slide track structure slidable within
2 said main body track portion between an open position and a closed position.

1 14. The connector of claim 11, wherein a gear attachment mechanism
2 of said gear is positionable within said primary connection means.

1 15. The connector of claim 11, wherein a base unit attachment
2 mechanism of said base unit is positionable within said primary connection means.

1 16. The connector of claim 11, wherein a base unit attachment
2 mechanism of said base unit and a gear attachment mechanism of said gear are
3 simultaneously positionable within said primary connection means.

- 1 17. A sliding reusable connector for attaching gear to a base unit, said
2 connector comprising:
- 3 (a) a main body having a first main body end and a second main body
4 end;
- 5 (b) a main body track portion associated with said first main body end;
- 6 (c) a main body securing portion associated with said second main
7 body end;
- 8 (d) a slide having a first slide end and a second slide end;
- 9 (e) longitudinal slide track structure extending at least partially between
10 said first slide end and said second slide end;
- 11 (f) slide securing structure associated with said second slide end;
- 12 (g) said slide track structure slidably interconnected with said main
13 body track portion; and
- 14 (h) said slide locking structure repeatedly securable and unsecurable
15 with said main body securing portion.
- 1 18. The connector of claim 17, said main body further defining at least
2 one secondary connection means.